

**Flood Control Project Maintenance
Levee Inspections**

LMA District Cover Sheet

Spring 2012 Levee Inspection Results

Reclamation District No. 1500 Sutter Basin

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
* Overall LMA Rating (Fall Only)				

** Non-receipt of Summer or Winter Inspection Reports may effect overall annual rating.

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SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports.

Comments

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2012 Levee Inspection Results

Reclamation District No. 1500 Sutter Basin

Waterway			Bank	Unit Miles
Unit No. 01 Sacramento River			Left	33.58
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	4/5/2012 - 4/5/2012			
DWR Inspector	John Williamson			
Accompanied By	Jack Bailey RD 1500			

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2012

Reclamation District No. 1500 Sutter Basin

Waterway							Bank	Unit Miles	Inspection Start/End	Inspector		
L/MR No.	Levee Mile		Category	Item	* Location	* Rating	Action/Comment			GPS Latitude/Longitude	Issue No.	
	Start	End								Start	End	Photo
1	Earthen Levee	Operations & Maintenance Manuals	LS	A Ma						°	°	87
2	Earthen Levee	Emergency Supplies & Equipment	LS	A Ma						°	°	88
3	Earthen Levee	Flood Preparedness & Training	LS	A Ma						°	°	89
4	0.03 0.03	Earthen Levee	Encroachments	LS M Ma	FW : Firewood					38.761045 ° 38.761045 ° 15 -121.675225 ° -121.675225 ° Y	DWR ID: DWR_RD1500_01_s_2012_87	
5	0.03 0.03	Earthen Levee	Animal Control	LS M Ma	A1 : Exterminate rodents and backfill and compact or grout burrows. Inspector Comments: There are several rodent holes in the area.					38.761015 ° 38.761015 ° 19 -121.675235 ° -121.675235 ° Y	DWR ID: DWR_RD1500_01_s_2012_88	
6	0.04 0.04	Earthen Levee	Animal Control	CR M Ma	A1 : Exterminate rodents and backfill and compact or grout burrows.					38.761055 ° 38.761055 ° 35 -121.675322 ° -121.675322 ° Y	DWR ID: DWR_RD1500_01_s_2012_89	
7	0.05 0.32	Earthen Levee	Trim / Thin Trees	LS C Ma	T1 : Trim trees to at least five feet above ground level. Inspector Comments: The walnut trees after harvest need to be trimmed up 5' from the levee.					38.761060 ° 38.763268 ° 53 -121.675505 ° -121.679098 °	DWR ID: DWR_RD1500_01_s_2012_19	
8	0.05 0.23	Earthen Levee	Trim / Thin Trees	LS C Ma	T4 : Trim trees over roadway to at least 12 feet above ground level.					38.761058 ° 38.762106 ° 210 -121.675599 ° -121.678275 °	DWR ID: DWR_RD1500_01_s_2012_20	
9	0.07 0.07	Earthen Levee	Animal Control	LS M Ma	A1 : Exterminate rodents and backfill and compact or grout burrows.					38.761071 ° 38.761071 ° 5 -121.675957 ° -121.675957 ° Y	DWR ID: DWR_RD1500_01_s_2012_5	
10	0.10 0.10	Earthen Levee	Encroachments	LS C Ma	FW : Firewood					38.761089 ° 38.761089 ° 211 -121.676345 ° -121.676345 °	DWR ID: DWR_RD1500_01_s_2012_21	
11	0.10 0.10	Earthen Levee	Animal Control	WS M Ma	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. Inspector Comments: There are burrow holes are on the landside too. There are depressions on crown and appears to be part of the burrows.					38.761090 ° 38.761090 ° 212 -121.676346 ° -121.676346 ° Y	DWR ID: DWR_RD1500_01_s_2012_212	
12	0.28 0.28	Earthen Levee	Animal Control	WS M Ma	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					38.762810 ° 38.762810 ° 67 -121.678702 ° -121.678702 ° Y	DWR ID: DWR_RD1500_01_s_2012_67	
13	0.30 0.30	Earthen Levee	Animal Control	LS U Ma	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					38.763128 ° 38.763128 ° 68 -121.678950 ° -121.678950 ° Y	DWR ID: DWR_RD1500_01_s_2012_68	

* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable

N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2012

Reclamation District No. 1500 Sutter Basin

Waterway								Bank	Unit Miles	Inspection Start/End	Inspector
L/MR No	Levee Mile		Category	Item	* Location	* Rating	Action/Comment	GPS Latitude/Longitude		Issue No.	
	Start	End						Start	End		
14	0.49	0.49	Earthen Levee	Animal Control	LS Ma	M	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	38.764442 °	38.764442 °	213	
								-121.681621 °	-121.681621 °	Y	
								DWR ID: DWR_RD1500_01_s_2012_213			
15	0.49	0.49	Earthen Levee	Animal Control	WS Ma	U	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	38.764493 °	38.764493 °	69	
								-121.681913 °	-121.681913 °	Y	
								DWR ID: DWR_RD1500_01_s_2012_69			
16	0.53	33.00	Earthen Levee	Vegetation	LS Ma	M	V1 : Control annual grass and weeds on the levee slopes and easements.	38.764498 °	39.015640 °	70	
								-121.682495 °	-121.823400 °	Y	
								DWR ID: DWR_RD1500_01_s_2012_70			
17	0.53	33.00	Earthen Levee	Vegetation	WS Ma	M	V1 : Control annual grass and weeds on the levee slopes and easements.	38.764498 °	39.015640 °	71	
								-121.682493 °	-121.823400 °	Y	
								DWR ID: DWR_RD1500_01_s_2012_71			
18	0.57	0.83	Earthen Levee	Vegetation	WSA/W Ob		V8 : Environmental Requirements.	38.764462 °	38.764638 °	72	
								-121.683167 °	-121.687690 °	Y	
								DWR ID: DWR_RD1500_01_s_2012_72			
19	1.30	1.30	Earthen Levee	Encroachments	WS En	M	BU : Buildings	38.769702 °	38.769702 °	3	
							Inspector Comments: pump house	-121.691088 °	-121.691088 °	Y	
								DWR ID: DWR_RD1500_01_s_2012_3			
20	1.32	1.32	Supplemental USACE Erosion Survey	WS Ma	M		Inspector Comments: 2006 - New erosion upstream, new bank failures near levee but still fairly wide berm in most places. 2008 - Large berm, questionable as to if it should remain in the inventory. 2010 - Minor new erosion, old cobble starting to fail. 2011: Cobble continues to unravel and additional slumping. [2011 Site ID: SAC_86-3_L]	38.770390 °	38.777282 °	1	
								-121.690553 °	-121.685841 °	Y	
								DWR ID: DWR_RD1500_01_s_2012_1			
21	1.34	1.34	Earthen Levee	Vegetation	LS En	M	V6 : Landscaping	38.770003 °	38.770003 °	4	
							Inspector Comments: retaining wall into levee	-121.690607 °	-121.690607 °	Y	
								DWR ID: DWR_RD1500_01_s_2012_4			
22	2.28	2.28	Supplemental USACE Erosion Survey	WS Ma	M		Inspector Comments: 2010 - The upstream end of the repair site at 87.0. Repair did not extend far enough upstream. 2011: New erosion pockets. [2011 Site ID: SAC_87-1_L]	38.781962 °	38.784936 °	2	
								-121.688033 °	-121.690033 °	Y	
								DWR ID: DWR_RD1500_01_s_2012_2			
23	2.39	2.39	Earthen Levee	Encroachments	WS Ma	C	PI : Pipe	38.783059 °	38.783059 °	214	
								-121.688068 °	-121.688068 °		
								DWR ID: DWR_RD1500_01_s_2012_214			
24	2.57	3.83	Earthen Levee	Encroachments	LS En	M	AD : Agricultural Ditch	38.785351 °	38.797174 °	963	
								-121.689075 °	-121.693045 °	Y	
								DWR ID: DWR_RD1500_01_s_2012_963			
25	3.22	3.22	Earthen Levee	Encroachments	WS Ma	M	TR : Tree or limb	38.791857 °	38.791857 °	215	
								-121.687451 °	-121.687451 °	Y	
								DWR ID: DWR_RD1500_01_s_2012_215			
26	3.73	3.73	Earthen Levee	Encroachments	WS En	M	BU : Buildings	38.797139 °	38.797139 °	6	
								-121.691137 °	-121.691137 °	Y	
								DWR ID: DWR_RD1500_01_s_2012_6			
27	3.98	3.98	Earthen Levee	Encroachments	LS En	M	BU : Buildings	38.797607 °	38.797607 °	7	
								-121.695862 °	-121.695862 °	Y	
								DWR ID: DWR_RD1500_01_s_2012_7			

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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2012

Reclamation District No. 1500 Sutter Basin

Waterway								Bank	Unit Miles	Inspection Start/End	Inspector
L/MR No	Levee Mile		Category	Item	* Location Start	* Rating +	Action/Comment	GPS Latitude/Longitude		Issue No. Start	Photo
	Levee Mile	End						Start	End		
28	4.01	4.01	Earthen Levee	Vegetation	LS	M	V6 : Landscaping En	38.797827 °	38.797827 °	8	
								-121.695985 °	-121.695985 °	Y	
								DWR ID: DWR_RD1500_01_s_2012_8			
29	4.03	4.03	Earthen Levee	Encroachments	WS	M	BU : Buildings En	38.798048 °	38.798048 °	9	
								-121.696148 °	-121.696148 °	Y	
								DWR ID: DWR_RD1500_01_s_2012_9			
30	4.04	4.16	Earthen Levee	Encroachments	LS	M	AD : Agricultural Ditch En	38.798572 °	38.800080 °	54	
								-121.696392 °	-121.696653 °	Y	
								DWR ID: DWR_RD1500_01_s_2012_54			
31	4.20	4.20	Earthen Levee	Encroachments	LS	M	BU : Buildings En	38.800550 °	38.800550 °	11	
								-121.696752 °	-121.696752 °	Y	
								DWR ID: DWR_RD1500_01_s_2012_11			
32	4.65	4.65	Earthen Levee	Vegetation	LS	M	V6 : Landscaping En	38.803632 °	38.803632 °	12	
								-121.702770 °	-121.702770 °	Y	
								DWR ID: DWR_RD1500_01_s_2012_12			
33	5.23	5.23	Earthen Levee	Encroachments	WS	M	BU : Buildings En	38.802342 °	38.802342 °	13	
								-121.712995 °	-121.712995 °	Y	
								DWR ID: DWR_RD1500_01_s_2012_13			
34	5.38	5.38	Earthen Levee	Vegetation	LS	U	V6 : Landscaping En	38.803240 °	38.803240 °	14	
								-121.715402 °	-121.715402 °	Y	
								DWR ID: DWR_RD1500_01_s_2012_14			
35	5.67	5.75	Earthen Levee	Encroachments	WS	M	BU : Buildings En	38.803005 °	38.803238 °	52	
								-121.720380 °	-121.721847 °	Y	
								DWR ID: DWR_RD1500_01_s_2012_52			
36	7.15	7.15	Earthen Levee	Encroachments	LS	M	PR : Prunings Ma	38.823316 °	38.823316 °	216	
								-121.722753 °	-121.722753 °	Y	
								DWR ID: DWR_RD1500_01_s_2012_216			
37	7.21	7.21	Earthen Levee	Trim / Thin Trees	LS	M	T1 : Trim trees to at least five feet above ground level. Ma	38.824119 °	38.824119 °	217	
								-121.722776 °	-121.722776 °	Y	
								DWR ID: DWR_RD1500_01_s_2012_217			
38	7.57	7.57	Earthen Levee	Encroachments	LS	M	EQ : Equipment Ma	38.828975 °	38.828975 °	16	
								-121.724265 °	-121.724265 °	Y	
								DWR ID: DWR_RD1500_01_s_2012_16			
39	7.66	7.66	Earthen Levee	Vegetation	LS	M	V6 : Landscaping En	38.830260 °	38.830260 °	17	
								-121.725357 °	-121.725357 °	Y	
								DWR ID: DWR_RD1500_01_s_2012_17			
40	8.30	8.30	Supplemental USACE Erosion Survey	WS	M		Inspector Comments: 1997 - Damage to cobble revetment on top left bank and toe damage. 2004 - Site is pretty minor. 2010 - Cobbles continue to deteriorate. 2011: Minor new erosion at the toe. [2011 Site ID: SAC_92-8_L]	38.838464 °	38.840347 °	10	
								-121.730205 °	-121.726857 °	Y	
								DWR ID: DWR_RD1500_01_s_2012_10			
41	8.43	8.43	Earthen Levee	Erosion / Bank Caving	LS	M	E2 : Schedule repair of erosion site prior to the next inspection. Ma	38.839483 °	38.839483 °	73	
								-121.728793 °	-121.728793 °	Y	
								DWR ID: DWR_RD1500_01_s_2012_73			
42	8.43	8.43	Earthen Levee	Erosion / Bank Caving	LS	M	E2 : Schedule repair of erosion site prior to the next inspection. Ma	38.839475 °	38.839475 °	56	
								-121.728750 °	-121.728750 °	Y	
								DWR ID: DWR_RD1500_01_s_2012_56			

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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2012

Reclamation District No. 1500 Sutter Basin

Waterway								Bank	Unit Miles	Inspection Start/End	Inspector
MR No	Levee Mile		Category	Item	* Location Start	* Rating +	Action/Comment	GPS Latitude/Longitude		Issue No. Start	Photo
	Start	End						Start	End		
43	8.79	8.79	Earthen Levee	Encroachments	LS En	M	BU : Buildings	38.842673 °	38.842673 °	18	
								-121.726442 °	-121.726442 °	Y	DWR ID: DWR_RD1500_01_s_2012_18
44	9.14	9.14	Earthen Levee	Crown Surface / Depressions / Rutting	CR Ma	M	C2 : Regrade the crown roadway for proper drainage. Inspector Comments: This is a county road (Cranmore RD.) on the crown. The county keeps adding asphalt to fill the depression.	38.847210 °	38.847210 °	221	
								-121.727825 °	-121.727825 °	Y	DWR ID: DWR_RD1500_01_s_2012_221
45	9.47	9.71	Earthen Levee	Vegetation	WSA/W Ob	V8	Environmental Requirements.	38.850267 °	38.853222 °	74	
								-121.723275 °	-121.724062 °	Y	DWR ID: DWR_RD1500_01_s_2012_74
46	11.26	11.26	Earthen Levee	Encroachments	WS En	M	BU : Buildings	38.864947 °	38.864947 °	75	
								-121.744032 °	-121.744032 °	Y	DWR ID: DWR_RD1500_01_s_2012_75
47	11.43	11.43	Earthen Levee	Vegetation	LS En	M	V6 : Landscaping	38.866762 °	38.866762 °	20	
								-121.746125 °	-121.746125 °	Y	DWR ID: DWR_RD1500_01_s_2012_20
48	11.81	11.81	Supplemental USACE Erosion Survey	WS Ma	M		Inspector Comments: 1997 - No toe on the large upstream rubble (mix of broken concrete, bricks, rock, and steal) - should be replaced. Oversized bank. 2001 - New slump at the downstream end. 2003 - Some minor bank retreat at the downstream end. 2004 - Some new retreat at the downstream end. 2006 - Some new erosion, mainly on the steep slope and scarps. (Pumping station is not part of the erosion site.) 2010 - Minor new erosion. 2011: Minor new erosion at the toe. [2011 Site ID: SAC_95-8_L]	38.871853 °	38.870581 °	29	
								-121.749330 °	-121.752059 °	Y	DWR ID: DWR_RD1500_01_s_2012_29
49	11.93	11.93	Earthen Levee	Encroachments	WS Ma	M	DE : Debris	38.872220 °	38.872220 °	219	
								-121.749785 °	-121.749785 °	Y	DWR ID: DWR_RD1500_01_s_2012_219
50	11.93	11.93	Earthen Levee	Erosion / Bank Caving	WSA/W Ma	E1	Note and monitor erosion site.	38.871972 °	38.871972 °	55	
								-121.749765 °	-121.749765 °		DWR ID: DWR_RD1500_01_s_2012_55
51	12.02	12.02	Supplemental USACE Erosion Survey	WS Ma	M		Inspector Comments: 2000 - Vertical Modesto Formation bank with mass failure. 2003 - Upstream end has some new bank retreat. 2004 - Upstream end is worse. 2006 - Some new erosion, mainly on the steep slope and scarps. (Pumping station is not part of the erosion site.) 2010 - Some new erosion and deposition at upstream end, definite encroachments. 2011: Minor new erosion at the toe. [2011 Site ID: SAC_96-2_L]	38.870474 °	38.869139 °	34	
								-121.752237 °	-121.757108 °	Y	DWR ID: DWR_RD1500_01_s_2012_34
52	12.10	12.10	Earthen Levee	Encroachments	LS Ma	C	PR : Prunings	38.870920 °	38.870920 °	220	
								-121.752417 °	-121.752417 °		DWR ID: DWR_RD1500_01_s_2012_220
53	12.15	12.15	Earthen Levee	Encroachments	WS En	M	BU : Buildings	38.870562 °	38.870562 °	23	
								-121.753335 °	-121.753335 °	Y	DWR ID: DWR_RD1500_01_s_2012_23

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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2012

Reclamation District No. 1500 Sutter Basin

Waterway							Bank	Unit Miles	Inspection Start/End	Inspector	
MR No	Levee Mile		Category	Item	* Location	* Rating	Action/Comment			GPS Latitude/Longitude	Issue No.
	Start	End								Start	End
54	12.31	12.31	Earthen Levee	Erosion / Bank Caving	WSA/W Ma	E1 : Note and monitor erosion site. Inspector Comments: wide berm				38.869700 ° -121.755945 °	38.869700 ° -121.755945 ° Y
										DWR ID: DWR_RD1500_01_s_2012_50	
55	12.55	12.55	Earthen Levee	Encroachments	LS M	EQ : Equipment				38.868717 ° -121.760133 °	38.868717 ° -121.760133 ° Y
										DWR ID: DWR_RD1500_01_s_2012_24	
56	12.93	12.93	Earthen Levee	Encroachments	CR A/W Ma	EQ : Equipment				38.865127 ° -121.765157 °	38.865127 ° -121.765157 ° Y
										DWR ID: DWR_RD1500_01_s_2012_25	
57	13.15	13.15	Earthen Levee	Encroachments	LS U En	BU : Buildings				38.863438 ° -121.768212 °	38.863438 ° -121.768212 ° Y
										DWR ID: DWR_RD1500_01_s_2012_26	
58	13.18	13.18	Earthen Levee	Encroachments	LS M Ma	EQ : Equipment				38.863081 ° -121.768781 °	38.863081 ° -121.768781 ° 992
										DWR ID: DWR_RD1500_01_s_2012_992	
59	13.98	14.28	Supplemental Survey	USACE Erosion	WS M Ma	Inspector Comments: 1997 - Intermittent toe failure of the hand placed riprap; failure of toe materials. 2011: No observed change. [2011 Site ID: SAC_99-0_L]				38.857239 ° -121.783771 °	38.861899 ° -121.784057 ° Y
										DWR ID: DWR_RD1500_01_s_2012_40	
60	14.09	14.09	Earthen Levee	Encroachments	CR M Ma	FW : Firewood				38.857683 ° -121.782652 °	38.857683 ° -121.782652 ° Y
										DWR ID: DWR_RD1500_01_s_2012_27	
61	14.13	14.13	Earthen Levee	Encroachments	WSA/W En	EQ : Equipment				38.857792 ° -121.783265 °	38.857792 ° -121.783265 ° Y
										DWR ID: DWR_RD1500_01_s_2012_28	
62	14.17	15.96	Earthen Levee	Crown Surface / Depressions / Rutting	CR M Ma	C1 : Keep the crown roadway free of vegetation.				38.858373 ° -121.783357 °	38.872050 ° -121.804660 ° Y
										DWR ID: DWR_RD1500_01_s_2012_76	
63	14.35	14.35	Earthen Levee	Encroachments	LS U En	BU : Buildings				38.860848 ° -121.783307 °	38.860848 ° -121.783307 ° 30
										DWR ID: DWR_RD1500_01_s_2012_30	
64	14.39	14.39	Earthen Levee	Vegetation	LS U En	V6 : Landscaping				38.861513 ° -121.783588 °	38.861513 ° -121.783588 ° Y
										DWR ID: DWR_RD1500_01_s_2012_31	
65	14.42	14.42	Earthen Levee	Trim / Thin Trees	LS U Ma	T3 : Trim and thin trees to allow visibility of the ground and room to flood fight.				38.861793 ° -121.783703 °	38.861793 ° -121.783703 ° Y
										DWR ID: DWR_RD1500_01_s_2012_77	
66	14.86	15.93	Earthen Levee	Encroachments	LS M En	AD : Agricultural Ditch				38.865473 ° -121.789413 °	38.871752 ° -121.804257 ° Y
										DWR ID: DWR_RD1500_01_s_2012_969	
67	15.27	15.27	Earthen Levee	Encroachments	LS M En	FE : Fences				38.866825 ° -121.794020 °	38.866825 ° -121.794020 ° Y
										DWR ID: DWR_RD1500_01_s_2012_22	

* Location LS : Land Side WS : Water Side CR : Crown

** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable

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+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2012

Reclamation District No. 1500 Sutter Basin

Waterway								Bank	Unit Miles	Inspection Start/End	Inspector
MR No	Levee Mile		Category	Item	* Location	* Rating	Action/Comment	GPS Latitude/Longitude		Issue No.	
	Start	End			*	+		Start	End		
68	15.27	15.27	Earthen Levee	Encroachments	WSA/W	DE : Debris En	Inspector Comments: pile of rip rap and concrete needs to be placed	38.866827 °	38.866827 °	21	DWR ID: DWR_RD1500_01_s_2012_21
								-121.794020 °	-121.794020 °	Y	
69	15.94	15.94	Earthen Levee	Encroachments	WSA/W	EQ : Equipment En		38.871960 °	38.871960 °	32	
								-121.804440 °	-121.804440 °	Y	DWR ID: DWR_RD1500_01_s_2012_32
70	16.37	16.37	Earthen Levee	Encroachments	LS	M	EQ : Equipment En	38.874623 °	38.874623 °	78	
								-121.811272 °	-121.811272 °	Y	DWR ID: DWR_RD1500_01_s_2012_78
71	16.48	16.48	Earthen Levee	Vegetation	LS	U	V6 : Landscaping En	38.875873 °	38.875873 °	33	
								-121.812410 °	-121.812410 °	Y	DWR ID: DWR_RD1500_01_s_2012_33
72	16.86	17.45	Earthen Levee	Encroachments	LS	M	AD : Agricultural Ditch En	38.881092 °	38.887335 °	972	
								-121.813713 °	-121.808187 °	Y	DWR ID: DWR_RD1500_01_s_2012_972
73	16.95	19.37	Earthen Levee	Crown Surface / Depressions / Rutting	CR	M	C1 : Keep the crown roadway free of vegetation. Ma	38.882350 °	38.903980 °	79	
								-121.813757 °	-121.789963 °		DWR ID: DWR_RD1500_01_s_2012_79
74	18.40	18.41	Supplemental USACE Erosion Survey	WS	M	Ma	Inspector Comments: 2006 - Eddy flow and overtopping flow collide on the inside of a tight bend. Scour caused by converging flows created large scallop on the inside of a bend. 2007 - Site still looks bad. Would be a good candidate for a setback levee. 2008 - Some new deposition of sand on eddy bar. 2009 - Much of the site has filled in with sand deposition. Continuing to heal. 2010 - New deposition. 2011: There has been some deposition as well as erosion since last year. [2011 Site ID: SAC_103-4_L]	38.901199 °	38.900993 °	41	
								-121.803225 °	-121.803382 °	Y	DWR ID: DWR_RD1500_01_s_2012_41
75	18.50	18.50	Earthen Levee	Erosion / Bank Caving	WSA/W	E1	Note and monitor erosion site. Ma	38.900873 °	38.900873 °	51	
								-121.802680 °	-121.802680 °	Y	DWR ID: DWR_RD1500_01_s_2012_51
76	18.51	18.51	Supplemental USACE Erosion Survey	WS	M	Ma	Inspector Comments: 1997 - Pocket failures of cobble revetment toe; scallops of rock loss along the bank; irregular bankline developing. 2001 - Small scallops in the toe of the berm. 2005 - Still multiple erosion pockets in the toe. 2006 - Two new small slumps. 2011: Old cobble continue to fail causing minor slumping. [2011 Site ID: SAC_104-0_L]	38.901337 °	38.902721 °	43	
								-121.801175 °	-121.790677 °	Y	DWR ID: DWR_RD1500_01_s_2012_43
77	19.19	19.19	Earthen Levee	Encroachments	LS	M	BU : Buildings En	38.901570 °	38.901570 °	36	
								-121.791235 °	-121.791235 °	Y	DWR ID: DWR_RD1500_01_s_2012_36

* Location
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CR : Crown

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+ Issue Type
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2012

Reclamation District No. 1500 Sutter Basin

Waterway							Bank	Unit Miles	Inspection Start/End	Inspector	
MR No	Levee Mile		Category	Item	* Location	* Rating	Action/Comment			GPS Latitude/Longitude	Issue No.
	Start	End					Start	End	Photo		
78	19.22	19.22	Earthen Levee	Vegetation	LS En	M	V6 : Landscaping Inspector Comments: Concrete retaining wall along toe of landside levee. Permit #10065	38.901942 °	38.901942 °	37	-121.790937 ° -121.790937 ° Y
											DWR ID: DWR_RD1500_01_s_2012_37
79	19.24	19.24	Supplemental USACE Erosion Survey	WS	Ma	M	Inspector Comments: 1997 - Cobbles eroded off the clay materials; not much evidence of erosion on the toe; cobble loss on the toe. 2011: Some new minor erosion. [2011 Site ID: SAC_104-5_L]	38.904041 °	38.906697 °	44	-121.790298 ° -121.792796 ° Y
											DWR ID: DWR_RD1500_01_s_2012_44
80	19.98	21.58	Earthen Levee	Crown Surface / Depressions / Rutting	CR A/W Ma	C1	Keep the crown roadway free of vegetation.	38.906173 °	38.915650 °	80	-121.798125 ° -121.804498 °
											DWR ID: DWR_RD1500_01_s_2012_80
81	20.86	21.40	Earthen Levee	Encroachments	LS En	M	AD : Agricultural Ditch	38.910177 °	38.913267 °	975	-121.810352 ° -121.803142 ° Y
											DWR ID: DWR_RD1500_01_s_2012_975
82	21.22	21.22	Earthen Levee	Animal Control	LS Ma	M	A1 : Exterminate rodents and backfill and compact or grout burrows.	38.911005 °	38.911005 °	57	-121.804420 ° -121.804420 ° Y
											DWR ID: DWR_RD1500_01_s_2012_57
83	21.29	21.29	Earthen Levee	Animal Control	LS Ma	M	A1 : Exterminate rodents and backfill and compact or grout burrows.	38.911848 °	38.911848 °	58	-121.803563 ° -121.803563 ° Y
											DWR ID: DWR_RD1500_01_s_2012_58
84	21.69	21.91	Earthen Levee	Encroachments	LS En	M	AD : Agricultural Ditch	38.916153 °	38.916127 °	59	-121.806319 ° -121.810326 ° Y
											DWR ID: DWR_RD1500_01_s_2012_59
85	22.01	23.46	Earthen Levee	Crown Surface / Depressions / Rutting	CR Ma	M	C1 : Keep the crown roadway free of vegetation.	38.916182 °	38.924948 °	81	-121.812380 ° -121.834288 °
											DWR ID: DWR_RD1500_01_s_2012_81
86	23.95	24.88	Earthen Levee	Crown Surface / Depressions / Rutting	CR Ma	M	C1 : Keep the crown roadway free of vegetation.	38.930502 °	38.941543 °	82	-121.834870 ° -121.832290 °
											DWR ID: DWR_RD1500_01_s_2012_82
87	24.04	24.04	Earthen Levee	Encroachments	LS En	M	BU : Buildings Inspector Comments: Some equipment at landside toe.	38.931838 °	38.931838 °	42	-121.834437 ° -121.834437 ° Y
											DWR ID: DWR_RD1500_01_s_2012_42
88	24.44	24.78	Earthen Levee	Encroachments	LS En	M	AD : Agricultural Ditch	38.936282 °	38.940712 °	979	-121.830192 ° -121.830650 ° Y
											DWR ID: DWR_RD1500_01_s_2012_979
89	24.44	24.44	Earthen Levee	Animal Control	WS Ma	C	A1 : Exterminate rodents and backfill and compact or grout burrows.	38.936392 °	38.936392 °	61	-121.830226 ° -121.830226 °
											DWR ID: DWR_RD1500_01_s_2012_61
90	25.04	25.04	Earthen Levee	Animal Control	LS Ma	C	A1 : Exterminate rodents and backfill and compact or grout burrows.	38.942713 °	38.942713 °	62	-121.834670 ° -121.834670 °
											DWR ID: DWR_RD1500_01_s_2012_62
91	25.76	26.54	Earthen Levee	Encroachments	LS En	M	AD : Agricultural Ditch	38.952500 °	38.961135 °	981	-121.837247 ° -121.830902 ° Y
											DWR ID: DWR_RD1500_01_s_2012_981

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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2012

Reclamation District No. 1500 Sutter Basin

Waterway							Bank	Unit Miles	Inspection Start/End	Inspector	
LMR No	Levee Mile		Category	Item	* Location Start	* Rating +	Action/Comment			GPS Latitude/Longitude	Issue No.
	Start	End					Start	End	Photo		
92	26.61	29.93	Earthen Levee	Crown Surface / Depressions / Rutting	CR	M	C1 : Keep the crown roadway free of vegetation. Ma			38.962048 ° 38.989542 ° 83 -121.831668 ° -121.800475 °	
										DWR ID: DWR_RD1500_01_s_2012_83	
93	26.84	27.07	Earthen Levee	Encroachments	LS	M	AD : Agricultural Ditch En			38.964850 ° 38.968083 ° 982 -121.833595 ° -121.833593 ° Y	
										DWR ID: DWR_RD1500_01_s_2012_982	
94	27.63	27.78	Earthen Levee	Encroachments	LS	M	AD : Agricultural Ditch En			38.972440 ° 38.972848 ° 983 -121.825892 ° -121.823098 ° Y	
										DWR ID: DWR_RD1500_01_s_2012_983	
95	28.57	29.60	Earthen Levee	Encroachments	LS	M	AD : Agricultural Ditch En			38.983081 ° 38.988512 ° 38 -121.819924 ° -121.806463 ° Y	
										DWR ID: DWR_RD1500_01_s_2012_38	
96	28.86	28.86	Earthen Levee	Animal Control	LS	C	A1 : Exterminate rodents and backfill and compact or Ma grout burrows.			38.987126 ° 38.987126 ° 63 -121.819366 ° -121.819366 °	
										DWR ID: DWR_RD1500_01_s_2012_63	
97	29.31	29.54	Earthen Levee	Vegetation	WSA/W	V8	: Environmental Requirements. Ob			38.988078 ° 38.988595 ° 84 -121.811692 ° -121.807532 ° Y	
										DWR ID: DWR_RD1500_01_s_2012_84	
98	29.56	29.56	Supplemental USACE Erosion Survey	WS	M	Ma	Inspector Comments: 2003 - New sedimentation and some new small toe scallops at the upstream end; downstream end has some new erosion. 2004 - Some new erosion at the toe and upper bank and some small new rotational failures (mainly minor, except at the downstream end). 2007 - Some new slumps. 2009 - Some new scallops and site was extended upstream. 2010 - New deposition along upstream end of site, however there is also new erosion throughout the site. Site seems to be worsening, and eroding fast. Large habitat for bank swallows. 2011: Some new minor erosion. [2011 Site ID: SAC_116-5_L]			39.003301 ° 39.006072 ° 49 -121.805024 ° -121.815926 ° Y	
										DWR ID: DWR_RD1500_01_s_2012_49	
99	30.14	30.14	Earthen Levee	Animal Control	LS	M	A1 : Exterminate rodents and backfill and compact or Ma grout burrows.			38.991429 ° 38.991429 ° 64 -121.797811 ° -121.797811 °	
										DWR ID: DWR_RD1500_01_s_2012_64	
100	30.60	30.60	Earthen Levee	Vegetation	LS	M	V6 : Landscaping En			38.996980 ° 38.996980 ° 45 -121.794723 ° -121.794723 ° Y	
										DWR ID: DWR_RD1500_01_s_2012_45	
101	30.62	30.62	Earthen Levee	Animal Control	LS	M	A1 : Exterminate rodents and backfill and compact or Ma grout burrows.			38.997277 ° 38.997277 ° 65 -121.794887 ° -121.794887 °	
										DWR ID: DWR_RD1500_01_s_2012_65	
102	30.91	30.91	Supplemental USACE Erosion Survey	WS	M	Ma	Inspector Comments: 2000 - Eroding, vertical berm slope over a vertical cohesive toe; slow erosion but getting close to the toe. 2002 - Erosion is getting close to the levee, still eroding with some new small slumps. 2004 - Some minor new erosion. 2006 - Some new erosion, cleaned off older scars and slump faces. 2008 - New, small, partial rotational failure. 2011: Some new minor erosion. [2011 Site ID: SAC_116-0_L]			38.999745 ° 39.001413 ° 66 -121.800898 ° -121.802889 ° Y	
										DWR ID: DWR_RD1500_01_s_2012_66	

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2012

Reclamation District No. 1500 Sutter Basin

Waterway							Bank	Unit Miles	Inspection Start/End	Inspector	
LMR No.	Levee Mile		Category	Item	* Location	** Rating	Action/Comment			GPS Latitude/Longitude	Issue No.
	Start	End					Start	End	Photo		
103	31.63	33.02	Earthen Levee	Crown Surface / Depressions / Rutting	CR M Ma	C1 : Keep the crown roadway free of vegetation.	39.005670 °	39.015888 °	85	-121.809338 °	-121.823208 °
										DWR ID: DWR_RD1500_01_s_2012_85	
104	31.94	31.94	Earthen Levee	Underseepage Relief Wells	CR A/W Ob		39.006722 °	39.006722 °	86	-121.814752 °	-121.814752 ° Y
										DWR ID: DWR_RD1500_01_s_2012_86	
105	32.83	33.00	Earthen Levee	Encroachments	LS M En	AD : Agricultural Ditch	39.013720 °	39.015640 °	60	-121.825038 °	-121.823397 ° Y
										DWR ID: DWR_RD1500_01_s_2012_60	
106	33.33	33.33	Earthen Levee	Encroachments	LS M En	BU : Buildings	39.019722 °	39.019722 °	46	-121.820345 °	-121.820345 ° Y
										DWR ID: DWR_RD1500_01_s_2012_46	
107	33.41	33.41	Earthen Levee	Encroachments	WS M En	BU : Buildings Inspector Comments: Pumping Plant Intake structure	39.020875 °	39.020875 °	48	-121.820273 °	-121.820273 ° Y
										DWR ID: DWR_RD1500_01_s_2012_48	
108	33.41	33.41	Earthen Levee	Encroachments	LS M En	BU : Buildings	39.020875 °	39.020875 °	47	-121.820272 °	-121.820272 ° Y
										DWR ID: DWR_RD1500_01_s_2012_47	

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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2012

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.58	04/05/2012 04/05/2012	John Williamson

Levee Mile Report Line	4
Start Levee Mile	0.03
End Levee Mile	0.03
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Fresh pile of firewood from this years prunings.	
johngw_s_20120313_361.jpg	



Levee Mile Report Line	4
Start Levee Mile	0.03
End Levee Mile	0.03
Location	Land Side
Category	Earthen Levee
Item	Encroachments
The firewood that was there last year has grown in size.	
johngw_s_20120313_362.jpg	



Levee Mile Report Line	5
Start Levee Mile	0.03
End Levee Mile	0.03
Location	Land Side
Category	Earthen Levee
Item	Animal Control
This is one of several rodent holes in the area.	
johngw_s_20120313_366.jpg	



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2012

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.58	04/05/2012 04/05/2012	John Williamson

Levee Mile Report Line	5
Start Levee Mile	0.03
End Levee Mile	0.03
Location	Land Side
Category	Earthen Levee
Item	Animal Control
There are multiple rodents hole in the area.	
john gw_s_20120313_367.jpg	



Levee Mile Report Line	5
Start Levee Mile	0.03
End Levee Mile	0.03
Location	Land Side
Category	Earthen Levee
Item	Animal Control
There are many rodent holes a short distance away from the last photo.	
john gw_s_20120313_368.jpg	



Levee Mile Report Line	6
Start Levee Mile	0.04
End Levee Mile	0.04
Location	Crown
Category	Earthen Levee
Item	Animal Control
A rodent hole in the levee crown, photo taken spring 2012.	
john gw_s_20120409_656.jpg	



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2012

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.58	04/05/2012 04/05/2012	John Williamson

Levee Mile Report Line	6
Start Levee Mile	0.04
End Levee Mile	0.04
Location	Crown
Category	Earthen Levee
Item	Animal Control
Two more rodent hole in the crown, photo taken spring 2012.	
john gw_s_20120409_657.jpg	



Levee Mile Report Line	9
Start Levee Mile	0.07
End Levee Mile	0.07
Location	Land Side
Category	Earthen Levee
Item	Animal Control
There are some old and a few new rodent holes that need to be backfill.	
john gw_s_20120313_350.jpg	



Levee Mile Report Line	11
Start Levee Mile	0.10
End Levee Mile	0.10
Location	Water Side
Category	Earthen Levee
Item	Animal Control
A view of a very large rodent hole on the waterside. Depression are on the crown.	
john gw_s_20120313_416.jpg	



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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2012

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.58	04/05/2012 04/05/2012	John Williamson

Levee Mile Report Line	11
Start Levee Mile	0.10
End Levee Mile	0.10
Location	Water Side
Category	Earthen Levee
Item	Animal Control
The depression appears to be in line with the rodent holes.	
johngw_s_20120313_417.jpg	



Levee Mile Report Line	12
Start Levee Mile	0.28
End Levee Mile	0.28
Location	Water Side
Category	Earthen Levee
Item	Animal Control
Several rodent holes on the waterside levee slope, photo taken spring 2012.	
johngw_s_20120409_658.jpg	



Levee Mile Report Line	13
Start Levee Mile	0.30
End Levee Mile	0.30
Location	Land Side
Category	Earthen Levee
Item	Animal Control
More than five hole in a 25' area, photo taken spring 2012.	
johngw_s_20120409_659.jpg	



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2012

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.58	04/05/2012 04/05/2012	John Williamson

Levee Mile Report Line	13
Start Levee Mile	0.30
End Levee Mile	0.30
Location	Land Side
Category	Earthen Levee
Item	Animal Control

Second photo of the same area.

johngw_s_20120409_660.jpg



Levee Mile Report Line	14
Start Levee Mile	0.49
End Levee Mile	0.49
Location	Land Side
Category	Earthen Levee
Item	Animal Control

A series of rodent holes on the landside slope and toe of the levee.

johngw_s_20120313_418.jpg



Levee Mile Report Line	15
Start Levee Mile	0.49
End Levee Mile	0.49
Location	Water Side
Category	Earthen Levee
Item	Animal Control

Rodent holes on the waterside across from others on the landside, photo taken spring 2012.

johngw_s_20120409_661.jpg



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2012

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.58	04/05/2012 04/05/2012	John Williamson

Levee Mile Report Line	16
Start Levee Mile	0.53
End Levee Mile	33.00
Location	Land Side
Category	Earthen Levee
Item	Vegetation
A view of the waterside slope grasses taller than 12", photo taken spring 2012.	
johngw_s_20120409_663.jpg	



Levee Mile Report Line	17
Start Levee Mile	0.53
End Levee Mile	33.00
Location	Water Side
Category	Earthen Levee
Item	Vegetation
A view of the landside slope grasses taller than 12", photo taken spring 2012.	
johngw_s_20120409_662.jpg	



Levee Mile Report Line	18
Start Levee Mile	0.57
End Levee Mile	0.83
Location	Water Side
Category	Earthen Levee
Item	Vegetation
A revegetation site waterside toe, photo taken spring 2012.	
johngw_s_20120409_664.jpg	



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2012

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.58	04/05/2012 04/05/2012	John Williamson

Levee Mile Report Line	18
Start Levee Mile	0.57
End Levee Mile	0.83
Location	Water Side
Category	Earthen Levee
Item	Vegetation

A view of the revegetation site.



Levee Mile Report Line	19
Start Levee Mile	1.30
End Levee Mile	1.30
Location	Water Side
Category	Earthen Levee
Item	Encroachments

The building is of a pumphouse.



Levee Mile Report Line	20
Start Levee Mile	1.32
End Levee Mile	1.32
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #1



johngw_s_20120409_665.jpg

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Levee Inspections**

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.58	04/05/2012 04/05/2012	John Williamson

Levee Mile Report Line	20
Start Levee Mile	1.32
End Levee Mile	1.32
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #2

johngw_s_20120313_343.jpg



Levee Mile Report Line	20
Start Levee Mile	1.32
End Levee Mile	1.32
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #3

johngw_s_20120313_344.jpg



Levee Mile Report Line	21
Start Levee Mile	1.34
End Levee Mile	1.34
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Landscape and retaining wall, this photo is from spring 2010.

johngw_s_20120313_349.jpg



* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
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C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2012

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.58	04/05/2012 04/05/2012	John Williamson

Levee Mile Report Line	22
Start Levee Mile	2.28
End Levee Mile	2.28
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #1

johngw_s_20120313_345.jpg



Levee Mile Report Line	22
Start Levee Mile	2.28
End Levee Mile	2.28
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #2

johngw_s_20120313_346.jpg



Levee Mile Report Line	22
Start Levee Mile	2.28
End Levee Mile	2.28
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #3

johngw_s_20120313_347.jpg



* Location
LS : Land Side
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2012

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.58	04/05/2012 04/05/2012	John Williamson

Levee Mile Report Line	24
Start Levee Mile	2.57
End Levee Mile	3.83
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Agricultural ditch, photo was taken in spring 2010.

johngw_s_20120313_426.jpg



Levee Mile Report Line	25
Start Levee Mile	3.22
End Levee Mile	3.22
Location	Water Side
Category	Earthen Levee
Item	Encroachments

A large tree branch has fallen across the toe of the levee.

johngw_s_20120313_420.jpg



Levee Mile Report Line	26
Start Levee Mile	3.73
End Levee Mile	3.73
Location	Water Side
Category	Earthen Levee
Item	Encroachments

The photo is of the abandoned pumphouse. The district has placed a steel plate over the old outlets. They have began filling the structure for safety.

johngw_s_20120313_351.jpg



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2012

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.58	04/05/2012 04/05/2012	John Williamson

Levee Mile Report Line	27
Start Levee Mile	3.98
End Levee Mile	3.98
Location	Land Side
Category	Earthen Levee
Item	Encroachments
A small building is encroaching into the landside levee toe.	
johngw_s_20120313_352.jpg	



Levee Mile Report Line	28
Start Levee Mile	4.01
End Levee Mile	4.01
Location	Land Side
Category	Earthen Levee
Item	Vegetation
The landscape is planted into the encroachment zone within 15' of the toe.	
johngw_s_20120313_353.jpg	



Levee Mile Report Line	29
Start Levee Mile	4.03
End Levee Mile	4.03
Location	Water Side
Category	Earthen Levee
Item	Encroachments
The building is the new pumping plant for Sutter Mutual Water. This replaces the abandoned one.	
johngw_s_20120313_354.jpg	



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2012

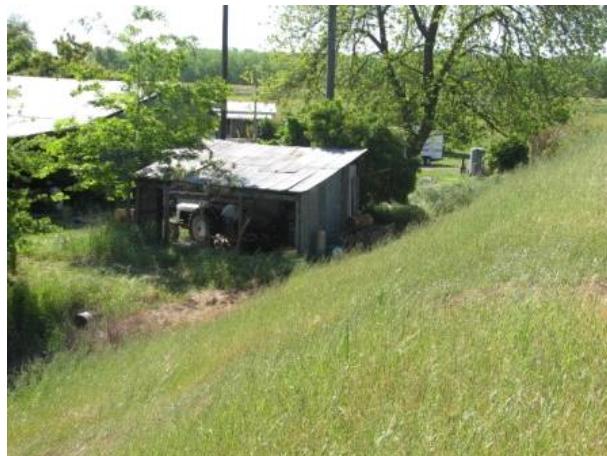
Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.58	04/05/2012 04/05/2012	John Williamson

Levee Mile Report Line	30
Start Levee Mile	4.04
End Levee Mile	4.16
Location	Land Side
Category	Earthen Levee
Item	Encroachments
A agricultural ditch runs along the toe of the levee, photo taken spring 2012.	
johngw_s_20120409_666.jpg	



Levee Mile Report Line	31
Start Levee Mile	4.20
End Levee Mile	4.20
Location	Land Side
Category	Earthen Levee
Item	Encroachments
The equipment shed encroaches into the toe of the levee.	
johngw_s_20120313_358.jpg	



Levee Mile Report Line	32
Start Levee Mile	4.65
End Levee Mile	4.65
Location	Land Side
Category	Earthen Levee
Item	Vegetation
The landscape is planted within the encroachment area of 15'.	
johngw_s_20120313_359.jpg	



* Location LS : Land Side WS : Water Side CR : Crown
** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain

+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2012

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.58	04/05/2012 04/05/2012	John Williamson

Levee Mile Report Line	33
Start Levee Mile	5.23
End Levee Mile	5.23
Location	Water Side
Category	Earthen Levee
Item	Encroachments
A pump house building is on the waterside slope, photo taken spring 2012.	
<i>johngw_s_20120409_667.jpg</i>	



Levee Mile Report Line	34
Start Levee Mile	5.38
End Levee Mile	5.38
Location	Land Side
Category	Earthen Levee
Item	Vegetation
The landscape completely blocks the landside slope and toe.	
<i>johngw_s_20120313_360.jpg</i>	



Levee Mile Report Line	35
Start Levee Mile	5.67
End Levee Mile	5.75
Location	Water Side
Category	Earthen Levee
Item	Encroachments
Stingrays Marina RV park, photo was taken in spring 2010.	
<i>johngw_s_20120313_406.jpg</i>	



* Location LS : Land Side WS : Water Side CR : Crown
** Rating

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2012

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.58	04/05/2012 04/05/2012	John Williamson

Levee Mile Report Line	35
Start Levee Mile	5.67
End Levee Mile	5.75
Location	Water Side
Category	Earthen Levee
Item	Encroachments
Here is another look at Stingrays Marina and RV park	
johngw_s_20120313_407.jpg	



Levee Mile Report Line	35
Start Levee Mile	5.67
End Levee Mile	5.75
Location	Water Side
Category	Earthen Levee
Item	Encroachments
Another view of Stingrays RV park and entrance to the waterside business.	
johngw_s_20120313_408.jpg	



Levee Mile Report Line	35
Start Levee Mile	5.67
End Levee Mile	5.75
Location	Water Side
Category	Earthen Levee
Item	Encroachments
A current photo taken in the spring 2012.	
johngw_s_20120409_668.jpg	



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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2012

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.58	04/05/2012 04/05/2012	John Williamson

Levee Mile Report Line	36
Start Levee Mile	7.15
End Levee Mile	7.15
Location	Land Side
Category	Earthen Levee
Item	Encroachments
The land owner has piled prunings along the levee toe.	
johngw_s_20120313_421.jpg	



Levee Mile Report Line	37
Start Levee Mile	7.21
End Levee Mile	7.21
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees
Trees need to be trimmed to the height of 5 feet to see the slope.	
johngw_s_20120313_422.jpg	



Levee Mile Report Line	38
Start Levee Mile	7.57
End Levee Mile	7.57
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Equipment along landside toe. Photo was taken in spring 2010.	
johngw_s_20120313_363.jpg	



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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2012

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.58	04/05/2012 04/05/2012	John Williamson

Levee Mile Report Line	39
Start Levee Mile	7.66
End Levee Mile	7.66
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Landscape shrubs, photo taken in spring 2010.	johngw_s_20120313_364.jpg



Levee Mile Report Line	40
Start Levee Mile	8.30
End Levee Mile	8.30
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey
USACE 2011 Photo #1	johngw_s_20120313_355.jpg



Levee Mile Report Line	40
Start Levee Mile	8.30
End Levee Mile	8.30
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey
USACE 2011 Photo #2	johngw_s_20120313_356.jpg



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2012

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.58	04/05/2012 04/05/2012	John Williamson

Levee Mile Report Line	40
Start Levee Mile	8.30
End Levee Mile	8.30
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #3

johngw_s_20120313_357.jpg



Levee Mile Report Line	41
Start Levee Mile	8.43
End Levee Mile	8.43
Location	Land Side
Category	Earthen Levee
Item	Erosion / Bank Caving

Erosion on the landside shoulder possibly caused by squirrels, photo taken spring 2012.

johngw_s_20120409_669.jpg



Levee Mile Report Line	42
Start Levee Mile	8.43
End Levee Mile	8.43
Location	Land Side
Category	Earthen Levee
Item	Erosion / Bank Caving

There has been some erosion along the roadside, need to repair the shoulder.

johngw_s_20120313_410.jpg



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2012

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.58	04/05/2012 04/05/2012	John Williamson

Levee Mile Report Line	43
Start Levee Mile	8.79
End Levee Mile	8.79
Location	Land Side
Category	Earthen Levee
Item	Encroachments
The corner of the building has encroached into the toe.	
johngw_s_20120313_365.jpg	



Levee Mile Report Line	44
Start Levee Mile	9.14
End Levee Mile	9.14
Location	Crown
Category	Earthen Levee
Item	Crown Surface / Depressions / Rutting
There is a depression in the county road that is on the crown. This has been an on going issue for years according to the district. Fall 2011	
johngw_s_20120313_425.jpg	



Levee Mile Report Line	45
Start Levee Mile	9.47
End Levee Mile	9.71
Location	Water Side
Category	Earthen Levee
Item	Vegetation
Another revegetation site photo taken spring 2012.	
johngw_s_20120409_670.jpg	



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2012

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.58	04/05/2012 04/05/2012	John Williamson

Levee Mile Report Line	45
Start Levee Mile	9.47
End Levee Mile	9.71
Location	Water Side
Category	Earthen Levee
Item	Vegetation

A revegetation site on the waterside bank with sprinklers installed.

johngw_s_20120409_671.jpg



Levee Mile Report Line	46
Start Levee Mile	11.26
End Levee Mile	11.26
Location	Water Side
Category	Earthen Levee
Item	Encroachments

A fishing shack with stove and solar power on waterside berm, photo taken spring 2012.

johngw_s_20120409_672.jpg



Levee Mile Report Line	47
Start Levee Mile	11.43
End Levee Mile	11.43
Location	Land Side
Category	Earthen Levee
Item	Vegetation

The homeowner has landscaped the levee slope.

johngw_s_20120313_369.jpg



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2012

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.58	04/05/2012 04/05/2012	John Williamson

Levee Mile Report Line	48
Start Levee Mile	11.81
End Levee Mile	11.81
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #1

johngw_s_20120313_378.jpg



Levee Mile Report Line	49
Start Levee Mile	11.93
End Levee Mile	11.93
Location	Water Side
Category	Earthen Levee
Item	Encroachments

Concrete debris is being stockpiled on the slab of the old loading dock area.

johngw_s_20120313_423.jpg



Levee Mile Report Line	49
Start Levee Mile	11.93
End Levee Mile	11.93
Location	Water Side
Category	Earthen Levee
Item	Encroachments

The debris pile has gotten smaller, photo taken spring 2012.

johngw_s_20120409_673.jpg



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2012

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.58	04/05/2012 04/05/2012	John Williamson

Levee Mile Report Line	51
Start Levee Mile	12.02
End Levee Mile	12.02
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #1

johngw_s_20120313_383.jpg



Levee Mile Report Line	51
Start Levee Mile	12.02
End Levee Mile	12.02
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #2

johngw_s_20120313_384.jpg



Levee Mile Report Line	53
Start Levee Mile	12.15
End Levee Mile	12.15
Location	Water Side
Category	Earthen Levee
Item	Encroachments

The mobile home is the home of the operator for Sutter Municipile Water.

johngw_s_20120313_372.jpg



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2012

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.58	04/05/2012 04/05/2012	John Williamson

Levee Mile Report Line	54
Start Levee Mile	12.31
End Levee Mile	12.31
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving
An erosion site along the embankment, photo taken spring 2012.	
	
johngw_s_20120409_674.jpg	

Levee Mile Report Line	55
Start Levee Mile	12.55
End Levee Mile	12.55
Location	Land Side
Category	Earthen Levee
Item	Encroachments
There is equipment parked along the toe of the levee.	
	
johngw_s_20120313_373.jpg	

Levee Mile Report Line	56
Start Levee Mile	12.93
End Levee Mile	12.93
Location	Crown
Category	Earthen Levee
Item	Encroachments
On top of the crown is farm equipment and irrigation pipe.	
	
johngw_s_20120313_374.jpg	

* Location
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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2012

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.58	04/05/2012 04/05/2012	John Williamson

Levee Mile Report Line	57
Start Levee Mile	13.15
End Levee Mile	13.15
Location	Land Side
Category	Earthen Levee
Item	Encroachments
The buildings backside was built into the toe of the levee.	
johngw_s_20120313_375.jpg	



Levee Mile Report Line	58
Start Levee Mile	13.18
End Levee Mile	13.18
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Next to the building there are tires and axles stored at the toe.	
johngw_s_20120313_434.jpg	



Levee Mile Report Line	59
Start Levee Mile	13.98
End Levee Mile	14.28
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey
USACE 2011 Photo #1	
johngw_s_20120313_387.jpg	



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2012

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.58	04/05/2012 04/05/2012	John Williamson

Levee Mile Report Line	59
Start Levee Mile	13.98
End Levee Mile	14.28
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #2

johngw_s_20120313_388.jpg



Levee Mile Report Line	60
Start Levee Mile	14.09
End Levee Mile	14.09
Location	Crown
Category	Earthen Levee
Item	Encroachments

Firewood has been stacked on top of the levee crown.

johngw_s_20120313_376.jpg



Levee Mile Report Line	61
Start Levee Mile	14.13
End Levee Mile	14.13
Location	Water Side
Category	Earthen Levee
Item	Encroachments

View of equipment. Photo was taken in spring 2010.

johngw_s_20120313_377.jpg



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2012

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.58	04/05/2012 04/05/2012	John Williamson

Levee Mile Report Line	62
Start Levee Mile	14.17
End Levee Mile	15.96
Location	Crown
Category	Earthen Levee
Item	Crown Surface / Depressions / Rutting
Control the weeds on the crown, photo taken spring 2012.	
johngw_s_20120409_676.jpg	



Levee Mile Report Line	63
Start Levee Mile	14.35
End Levee Mile	14.35
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Building and wall into levee. Photo was taken in spring 2010.	
johngw_s_20120313_379.jpg	



Levee Mile Report Line	64
Start Levee Mile	14.39
End Levee Mile	14.39
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Landscape shrubs on shoulder. Photo was taken in spring 2010.	
johngw_s_20120313_380.jpg	



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2012

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.58	04/05/2012 04/05/2012	John Williamson

Levee Mile Report Line	65
Start Levee Mile	14.42
End Levee Mile	14.42
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees

The trees on the landside slope blocks the view of the slope, photo taken spring 2012.

johngw_s_20120409_675.jpg



Levee Mile Report Line	66
Start Levee Mile	14.86
End Levee Mile	15.93
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Agricultural ditch, photo taken in spring 2010.

johngw_s_20120313_427.jpg



Levee Mile Report Line	67
Start Levee Mile	15.27
End Levee Mile	15.27
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Fence into levee toe, photo taken in spring 2010.

johngw_s_20120313_371.jpg



* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2012

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.58	04/05/2012 04/05/2012	John Williamson

Levee Mile Report Line	68
Start Levee Mile	15.27
End Levee Mile	15.27
Location	Water Side
Category	Earthen Levee
Item	Encroachments
Rip rap and concrete debris, photo taken in spring 2010.	
<i>johngw_s_20120313_370.jpg</i>	



Levee Mile Report Line	69
Start Levee Mile	15.94
End Levee Mile	15.94
Location	Water Side
Category	Earthen Levee
Item	Encroachments
Farm equipment has been parked on the waterside berm.	
<i>johngw_s_20120313_381.jpg</i>	



Levee Mile Report Line	70
Start Levee Mile	16.37
End Levee Mile	16.37
Location	Land Side
Category	Earthen Levee
Item	Encroachments
The equipment is parked along the toe of the levee, photo taken spring 2012.	
<i>johngw_s_20120409_677.jpg</i>	



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2012

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.58	04/05/2012 04/05/2012	John Williamson

Levee Mile Report Line	71
Start Levee Mile	16.48
End Levee Mile	16.48
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Landscape shrubs, photo taken in spring 2010.

johngw_s_20120313_382.jpg



Levee Mile Report Line	72
Start Levee Mile	16.86
End Levee Mile	17.45
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Agricultural ditch, photo taken in spring 2010.

johngw_s_20120313_428.jpg



Levee Mile Report Line	74
Start Levee Mile	18.40
End Levee Mile	18.41
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #1

johngw_s_20120313_389.jpg



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2012

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.58	04/05/2012 04/05/2012	John Williamson

Levee Mile Report Line	74
Start Levee Mile	18.40
End Levee Mile	18.41
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey
USACE 2011 Photo #2	
johngw_s_20120313_390.jpg	



Levee Mile Report Line	75
Start Levee Mile	18.50
End Levee Mile	18.50
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving
This is an inside curve in the river and erosion has occurred.	
johngw_s_20120313_404.jpg	



Levee Mile Report Line	75
Start Levee Mile	18.50
End Levee Mile	18.50
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving
This is an upstream view of the same erosion.	
johngw_s_20120313_405.jpg	



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2012

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.58	04/05/2012 04/05/2012	John Williamson

Levee Mile Report Line	76
Start Levee Mile	18.51
End Levee Mile	18.51
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #1

johngw_s_20120313_392.jpg



Levee Mile Report Line	76
Start Levee Mile	18.51
End Levee Mile	18.51
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #2

johngw_s_20120313_393.jpg



Levee Mile Report Line	76
Start Levee Mile	18.51
End Levee Mile	18.51
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #3

johngw_s_20120313_394.jpg



* Location
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CR : Crown

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A/W : Acceptable but Monitor & Maintain

N : Not Inspected/Rated
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2012

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.58	04/05/2012 04/05/2012	John Williamson

Levee Mile Report Line	77
Start Levee Mile	19.19
End Levee Mile	19.19
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Building and wall into levee with landscape, photo taken in spring 2010.

johngw_s_20120313_385.jpg



Levee Mile Report Line	78
Start Levee Mile	19.22
End Levee Mile	19.22
Location	Land Side
Category	Earthen Levee
Item	Vegetation

The groundcover is on the levee slope above the concrete retaining wall. The groundcover is irrigated.

johngw_s_20120313_386.jpg



Levee Mile Report Line	79
Start Levee Mile	19.24
End Levee Mile	19.24
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #1

johngw_s_20120313_395.jpg



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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2012

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.58	04/05/2012 04/05/2012	John Williamson

Levee Mile Report Line	81
Start Levee Mile	20.86
End Levee Mile	21.40
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Agricultural ditch, photo taken in spring 2010.	
<i>johngw_s_20120313_429.jpg</i>	



Levee Mile Report Line	82
Start Levee Mile	21.22
End Levee Mile	21.22
Location	Land Side
Category	Earthen Levee
Item	Animal Control
Rodent holes on the landside slope, photo taken spring 2012.	
<i>johngw_s_20120409_678.jpg</i>	



Levee Mile Report Line	83
Start Levee Mile	21.29
End Levee Mile	21.29
Location	Land Side
Category	Earthen Levee
Item	Animal Control
Rodent holes on the landside levee slope, photo taken spring 2012.	
<i>johngw_s_20120409_679.jpg</i>	



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2012

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.58	04/05/2012 04/05/2012	John Williamson

Levee Mile Report Line	84
Start Levee Mile	21.69
End Levee Mile	21.91
Location	Land Side
Category	Earthen Levee
Item	Encroachments
The agricultural ditch runs along the toe of the levee.	
<i>johngw_s_20120313_411.jpg</i>	



Levee Mile Report Line	87
Start Levee Mile	24.04
End Levee Mile	24.04
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Pole barn and some equipment, photo taken in spring 2010.	
<i>johngw_s_20120313_391.jpg</i>	



Levee Mile Report Line	88
Start Levee Mile	24.44
End Levee Mile	24.78
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Agricultural ditch, photo taken in spring 2010.	
<i>johngw_s_20120313_430.jpg</i>	



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2012

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.58	04/05/2012 04/05/2012	John Williamson

Levee Mile Report Line	91
Start Levee Mile	25.76
End Levee Mile	26.54
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Agricultural ditch, photo taken in spring 2010.	
<i>johngw_s_20120313_431.jpg</i>	



Levee Mile Report Line	93
Start Levee Mile	26.84
End Levee Mile	27.07
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Agricultural ditch, photo taken in spring 2010.	
<i>johngw_s_20120313_432.jpg</i>	



Levee Mile Report Line	94
Start Levee Mile	27.63
End Levee Mile	27.78
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Agricultural ditch, photo taken in spring 2010.	
<i>johngw_s_20120313_433.jpg</i>	



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2012

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.58	04/05/2012 04/05/2012	John Williamson

Levee Mile Report Line	95
Start Levee Mile	28.57
End Levee Mile	29.60
Location	Land Side
Category	Earthen Levee
Item	Encroachments
The agricultural ditch runs along the toe of the levee, photo taken spring 2012.	
johngw_s_20120409_680.jpg	



Levee Mile Report Line	97
Start Levee Mile	29.31
End Levee Mile	29.54
Location	Water Side
Category	Earthen Levee
Item	Vegetation
Another revegetation site on the waterside berm, photo taken spring 2012.	
johngw_s_20120409_681.jpg	



Levee Mile Report Line	97
Start Levee Mile	29.31
End Levee Mile	29.54
Location	Water Side
Category	Earthen Levee
Item	Vegetation
A photo of the revegetation site.	
johngw_s_20120409_682.jpg	



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2012

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.58	04/05/2012 04/05/2012	John Williamson

Levee Mile Report Line	98
Start Levee Mile	29.56
End Levee Mile	29.56
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #1

johngw_s_20120313_400.jpg



Levee Mile Report Line	98
Start Levee Mile	29.56
End Levee Mile	29.56
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #2

johngw_s_20120313_401.jpg



Levee Mile Report Line	98
Start Levee Mile	29.56
End Levee Mile	29.56
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #3

johngw_s_20120313_402.jpg



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2012

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.58	04/05/2012 04/05/2012	John Williamson

Levee Mile Report Line	98
Start Levee Mile	29.56
End Levee Mile	29.56
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #4



johngw_s_20120313_403.jpg

Levee Mile Report Line	100
Start Levee Mile	30.60
End Levee Mile	30.60
Location	Land Side
Category	Earthen Levee
Item	Vegetation

The groundcover in the landscape makes it hard to see the levee slope.



johngw_s_20120313_396.jpg

Levee Mile Report Line	102
Start Levee Mile	30.91
End Levee Mile	30.91
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #1



johngw_s_20120313_413.jpg

* Location
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A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2012

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.58	04/05/2012 04/05/2012	John Williamson

Levee Mile Report Line	102
Start Levee Mile	30.91
End Levee Mile	30.91
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #2

johngw_s_20120313_414.jpg



The control unit for piezometers installed in 2012,
photo taken spring 2012.

johngw_s_20120409_683.jpg



Older, unused agricultural ditch. Tree stump
needs to be removed.

johngw_s_20120313_412.jpg



* Location
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CR : Crown

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A/W : Acceptable but Monitor & Maintain

+ Issue Type
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Ob : Design & System Obsolescence
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2012

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.58	04/05/2012 04/05/2012	John Williamson

Levee Mile Report Line	106
Start Levee Mile	33.33
End Levee Mile	33.33
Location	Land Side
Category	Earthen Levee
Item	Encroachments
The building is within the easement of the levee toe.	
johngw_s_20120313_397.jpg	



Levee Mile Report Line	107
Start Levee Mile	33.41
End Levee Mile	33.41
Location	Water Side
Category	Earthen Levee
Item	Encroachments
The buildings are on the waterside of the crown. Control buildings for the pumping plant.	
johngw_s_20120313_399.jpg	



Levee Mile Report Line	108
Start Levee Mile	33.41
End Levee Mile	33.41
Location	Land Side
Category	Earthen Levee
Item	Encroachments
The building is the pumping plant for Sutter Municipal.	
johngw_s_20120313_398.jpg	



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2012

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.58	04/05/2012 04/05/2012	John Williamson

* Location
LS : Land Side
WS : Water Side
CR : Crown

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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2012 Levee Inspection Results

Reclamation District No. 1500 Sutter Basin

Waterway			Bank	Unit Miles
Unit No. 02 Sutter Bypass			Right	20.77
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	4/4/2012 - 4/4/2012			
DWR Inspector	John Williamson			
Accompanied By				

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2012

Reclamation District No. 1500 Sutter Basin

Waterway							Bank	Unit Miles	Inspection Start/End	Inspector	
LMR No.	Levee Mile		Category	Item	* Location	** Rating	Action/Comment			GPS Latitude/Longitude	Issue No.
	Start	End			*	+	Start	End	Photo		
1	0.01	0.01	Earthen Levee	Encroachments	WS Ma	M	EQ : Equipment			38.761192 ° -121.674623 °	12 Y
										DWR ID: DWR_RD1500_02_s_2012_12	
2	0.01	20.76	Earthen Levee	Vegetation	LS Ma	M	V1 : Control annual grass and weeds on the levee slopes and easements.			38.761180 ° -121.674493 °	1 Y
										DWR ID: DWR_RD1500_02_s_2012_1	
3	0.01	20.76	Earthen Levee	Vegetation	WS Ma	M	V1 : Control annual grass and weeds on the levee slopes and easements.			38.761188 ° -121.674482 °	2 Y
										DWR ID: DWR_RD1500_02_s_2012_2	
4	2.03	6.68	Earthen Levee	Crown Surface / Depressions / Rutting	CR Ma	M	C1 : Keep the crown roadway free of vegetation.			38.785293 ° -121.654625 °	6 Y
										DWR ID: DWR_RD1500_02_s_2012_6	
5	7.29	20.76	Earthen Levee	Crown Surface / Depressions / Rutting	CR Ma	M	C1 : Keep the crown roadway free of vegetation.			38.858560 ° -121.650522 °	9 Y
										DWR ID: DWR_RD1500_02_s_2012_9	
6	9.92	9.92	Earthen Levee	Trim / Thin Trees	WSA/W Ma	T2	: Thin trees to allow visibility of the ground and room to flood fight. Inspector Comments: A cottonwood tree has fallen on the waterside toe. It needs to be cut up. Repair the damage caused by the root ball at the toe.			38.893473 ° -121.636705 °	8 Y
										DWR ID: DWR_RD1500_02_s_2012_8	
7	11.03	11.03	Earthen Levee	Crown Surface / Depressions / Rutting	CR Ma	C	C3 : Add appropriate gravel or road base. Grade and compact. Inspector Comments: This is a county road (Kirkville Rd) that crosses the levee. Truck traffic and County grading on the road has degraded the crown. Need to have AB material to reestablish the crown to proper grade. Some improvement has been made to crown of road.			38.909385 ° -121.639435 °	17
										DWR ID: DWR_RD1500_02_s_2012_17	
8	14.22	14.22	Earthen Levee	Underseepage Relief Wells	LS Ma	A/W				38.947582 ° -121.669740 °	4 Y
										DWR ID: DWR_RD1500_02_s_2012_4	
9	14.40	14.40	Earthen Levee	Underseepage Relief Wells	LS Ma	U				38.949640 ° -121.671947 °	10 Y
										DWR ID: DWR_RD1500_02_s_2012_10	
10	14.56	14.56	Earthen Levee	Underseepage Relief Wells	LS Ma	A/W				38.951398 ° -121.673827 °	11 Y
										DWR ID: DWR_RD1500_02_s_2012_11	
11	18.24	18.24	Earthen Levee	Underseepage Relief Wells	LS Ma	A/W				38.987092 ° -121.725097 °	13 Y
										DWR ID: DWR_RD1500_02_s_2012_13	
12	18.48	18.48	Earthen Levee	Underseepage Relief Wells	LS Ma	A/W				38.989813 ° -121.727763 °	15 Y
										DWR ID: DWR_RD1500_02_s_2012_15	

* Location LS : Land Side WS : Water Side CR : Crown

** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2012

Reclamation District No. 1500 Sutter Basin

Waterway				Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sutter Bypass				Right	20.77	04/04/2012 04/04/2012	John Williamson

LMR No.	Levee Mile		Category	Item	* Location Start	* Rating Ma	Action/Comment	GPS Latitude/Longitude		Issue No. Start
	Start	End						End	Photo	

13	19.96	19.96	Earthen Levee	Trim / Thin Trees	WSA/W Ma	T2 : Thin trees to allow visibility of the ground and room to flood fight. Inspector Comments: Old cottonwood tree broke in half and fell on the toe need to cut up and remove.	39.010056 °	39.010056 °	14
							-121.737077 °	-121.737077 °	Y

DWR ID: DWR_RD1500_02_s_2012_14

* Location LS : Land Side WS : Water Side CR : Crown

** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain
---	---

+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2012

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sutter Bypass	Right	20.77	04/04/2012 04/04/2012	John Williamson

Levee Mile Report Line	1
Start Levee Mile	0.01
End Levee Mile	0.01
Location	Water Side
Category	Earthen Levee
Item	Encroachments
Farm equipment is stored on crown at L.M. 0.0	
<i>johngw_s_20120313_440.jpg</i>	



Levee Mile Report Line	1
Start Levee Mile	0.01
End Levee Mile	0.01
Location	Water Side
Category	Earthen Levee
Item	Encroachments
This is another photo of equipment on levee crown.	
<i>johngw_s_20120313_441.jpg</i>	



Levee Mile Report Line	1
Start Levee Mile	0.01
End Levee Mile	0.01
Location	Water Side
Category	Earthen Levee
Item	Encroachments
Photo taken spring 2012.	
<i>johngw_s_20120409_643.jpg</i>	



* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
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M : Minimally Acceptable
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C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2012

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sutter Bypass	Right	20.77	04/04/2012 04/04/2012	John Williamson

Levee Mile Report Line	2
Start Levee Mile	0.01
End Levee Mile	20.76
Location	Land Side
Category	Earthen Levee
Item	Vegetation

A view of the landside levee slope, photo taken spring 2012.

johngw_s_20120409_644.jpg



Levee Mile Report Line	3
Start Levee Mile	0.01
End Levee Mile	20.76
Location	Water Side
Category	Earthen Levee
Item	Vegetation

A view of the waterside levee slope grasses are taller than 12", photo taken spring 2012.

johngw_s_20120409_645.jpg



Levee Mile Report Line	4
Start Levee Mile	2.03
End Levee Mile	6.68
Location	Crown
Category	Earthen Levee
Item	Crown Surface / Depressions / Rutting

The crown needs to have weeds controlled, photo taken spring 2012.

johngw_s_20120409_648.jpg



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2012

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sutter Bypass	Right	20.77	04/04/2012 04/04/2012	John Williamson

Levee Mile Report Line	5
Start Levee Mile	7.29
End Levee Mile	20.76
Location	Crown
Category	Earthen Levee
Item	Crown Surface / Depressions / Rutting
The crown needs to be controlled for weeds, photo taken spring 2012.	
johngw_s_20120409_649.jpg	



Levee Mile Report Line	6
Start Levee Mile	9.92
End Levee Mile	9.92
Location	Water Side
Category	Earthen Levee
Item	Trim / Thin Trees
A tree has been blown over and the roots have been up rooted. Need to repair the damage area.	
johngw_s_20120313_438.jpg	



Levee Mile Report Line	6
Start Levee Mile	9.92
End Levee Mile	9.92
Location	Water Side
Category	Earthen Levee
Item	Trim / Thin Trees
The tree needs to be cut up and the rootball area needs to be backfilled. Photo taken fall 2011.	
johngw_s_20120313_439.jpg	



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2012

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sutter Bypass	Right	20.77	04/04/2012 04/04/2012	John Williamson

Levee Mile Report Line	8
Start Levee Mile	14.22
End Levee Mile	14.22
Location	Land Side
Category	Earthen Levee
Item	Underseepage Relief Wells
The relief well at boil 12, photo taken spring 2012.	
<i>johngw_s_20120409_650.jpg</i>	



Levee Mile Report Line	9
Start Levee Mile	14.40
End Levee Mile	14.40
Location	Land Side
Category	Earthen Levee
Item	Underseepage Relief Wells
The relief well at boils 14, 15 has been damaged, photo taken spring 2012.	
<i>johngw_s_20120409_651.jpg</i>	



Levee Mile Report Line	10
Start Levee Mile	14.56
End Levee Mile	14.56
Location	Land Side
Category	Earthen Levee
Item	Underseepage Relief Wells
A relief well at boil 16, photo taken spring 2012.	
<i>johngw_s_20120409_652.jpg</i>	



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2012

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sutter Bypass	Right	20.77	04/04/2012 04/04/2012	John Williamson

Levee Mile Report Line	11
Start Levee Mile	18.24
End Levee Mile	18.24
Location	Land Side
Category	Earthen Levee
Item	Underseepage Relief Wells
Toe drainage systems along the toe berm four total, photo taken spring 2012.	
johngw_s_20120409_653.jpg	



Levee Mile Report Line	12
Start Levee Mile	18.48
End Levee Mile	18.48
Location	Land Side
Category	Earthen Levee
Item	Underseepage Relief Wells
A toe drainage system at the toe berm, photo taken spring 2012.	
johngw_s_20120409_654.jpg	



Levee Mile Report Line	12
Start Levee Mile	18.48
End Levee Mile	18.48
Location	Land Side
Category	Earthen Levee
Item	Underseepage Relief Wells
Another toe drainage system close by, photo taken spring 2012.	
johngw_s_20120409_655.jpg	



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2012

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sutter Bypass	Right	20.77	04/04/2012 04/04/2012	John Williamson

Levee Mile Report Line	13
Start Levee Mile	19.96
End Levee Mile	19.96
Location	Water Side
Category	Earthen Levee
Item	Trim / Thin Trees
The cottonwood tree needs to be cut up and removed off the toe.	
johngw_s_20120313_443.jpg	



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